Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: G-P Gypsum Corporation, Fort Dodge, IA
Facility Location: 2375 Mill Road, Fort Dodge, IA 50501
Air Quality Operating Permit Number: 99-TV-035R1
Expiration Date: May 29, 2011

EIQ Number: 92-2162
Facility File Number: 94-01-010

Responsible Official
Name: David Sundberg
Title: Plant Manager
Mailing Address: P.O. Box 758, Fort Dodge, IA 50501
Phone #: (515) 573-2176

Permit Contact Person for the Facility
Name: Doug Crimmins
Title: Environmental Coordinator
Mailing Address: P.O. Box 578, Fort Dodge, IA 50501
Phone #: (515) 573-2176

This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources

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Douglas A. Campbell, Supervisor of Air Operating Permits Section Date

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Abbreviations

acfm.....actual cubic feet per minute
CFR.....Code of Federal Regulation
CE .....control equipment
CEM.....continuous emission monitor
^{o}F.....degrees Fahrenheit
EIQ.....emissions inventory questionnaire
EP.....emission point
EU .....emission unit
gr./dscf .....grains per dry standard cubic foot
gr./100 cf.....grains per one hundred cubic feet
IAC.....Iowa Administrative Code
IDNR.....Iowa Department of Natural Resources
Msf .....1,000 square feet
MVAC.....motor vehicle air conditioner
NAICS.....North American Industry Classification System
NSPS .....new source performance standard
ppmv .....parts per million by volume
lb./hr.....pounds per hour
lb./MMBtu .....pounds per million British thermal units
SCC.....Source Classification Codes
scfm.....standard cubic feet per minute
SIC .....Standard Industrial Classification
TPY .....tons per year
USEPA.....United States Environmental Protection Agency

Pollutants
PM.....particulate matter
PM_{10} .....particulate matter ten microns or less in diameter
SO_2 .....sulfur dioxide
NO_x .....nitrogen oxides
VOC .....volatile organic compound
CO.....carbon monoxide
HAP.....hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: G-P Gypsum Corporation, Fort Dodge, IA
Permit Number: 99-TV-035R1

Facility Description: Gypsum Wallboard Manufacturing (SIC 3275)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
1	1	Unpaved Road Traffic	NA
2	2	Gypsum Ore Pile	NA
3	3	Gypsum Ore Pile	NA
4	4	Bulk Unloading	NA
	5	Bulk Material Feed	NA
9	6	Primary Crushing	98-A-811-S1
	8	Screening	
	9	Secondary Crushing	
	7	Bulk Material Conveying	
	10	Bulk Material Conveying	
	11	Bulk Material Conveying	
	12	Bulk Material Conveying	
9A	6	Primary Crushing (Uncaptured)	NA
9B	8	Screening (Uncaptured)	NA
	9	Secondary Crushing (Uncaptured)	NA
9C	7	Bulk Material Conveying (Uncaptured)	NA
9D	10	Bulk Material Conveying (Uncaptured)	NA
9E	11	Bulk Material Conveying (Uncaptured)	NA
9F	12	Bulk Material Conveying (Uncaptured)	NA
53	12RU	Radial Stacker Conveyor	99-A-401
	102	Belt Conveyor	
12RU	12RU	Radial Stacker Conveyor (Uncaptured)	NA
12	13	Crushed Gypsum Ore Pile	NA
13	14	Gypsum Ore Pile	NA
28D	61	Accelerator Bin & Feed System	99-A-140
28J	46A	Stucco Storage Bin	78-A-185
28K	46B	Stucco Storage Bin	NA
28L	48A	Stucco Storage Bin	NA
28M	48B	Stucco Storage Bin	NA
29	50	Baghouse Heater	89-A-131
	52	Gypsum Conveyor	
	74	Gypsum Blender	
	75	Gypsum Pin Mixer	

Equipment List (Cont.)

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
32 33 34 35 36 37	82	Board Drying Kiln	02-A-889-S1 02-A-890-S1 02-A-891-S1 99-A-298-S2 02-A-892-S1 02-A-893-S1
	83		
	84		
	85		
	86		
	87		
	117	DENS In-Line Coating	
	120	DENS In-Line Spray Unit	
	I100	Edge Printer	
40 41 50	88A	End Trimmer	76-A-250-S1 00-A-677-S1
	88B	End Trimmer	
	89	Riser Cutter	
	116	Recut Saw	
43	91	Bulk Unloading of Gypsum Dust	NA
49	67	Starch Bin	89-A-197
	68	Starch Bin	
50A	19	Reclaim/Recycle Conveyor	00-A-206-S1
	110	Reclaim Storage Area	
	111	Steele Feeder	
51C	58	Ball Mill	98-A-600
	59	Ball Mill	
	60	Ball Mill	
52	31	Landplaster Storage Bin & Feed	98-A-601
55	101	High Angle Conveyor	99-A-402
	103	Raw Gypsum Bin	
56	104	Chain Feeder	99-A-403
	105	Ball Race Mill	
	106	Hot Gas Generator	
57	107	Closed Aeroslide	99-A-404
	108	Stucco Cooler	
59	113A	Diesel Engine	01-A-1114
59A	113B	Maxi-Grinder	01-A-1113
	112	Portable Trommel Screen	
	114	Portable Reclaim Conveyor	
60A	115A	Maxi-Grinder	02-A-360
60	115B	Diesel Engine	02-A-361
61	118	DENS Off-line Coating	02-A-894-S1
61A	I101	Edge Printer	04-A-061
62	119	Holtec Saw	02-A-895-S1

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
I18	Bulk Unloading of Gypsum Ore
I44	Stucco Conveying (Enclosed)
I45	Stucco Conveying (Enclosed)
I47	Stucco Conveying (Enclosed)
I49	Stucco Conveying (Enclosed)
I51	Bulk Unloading of Gypsum Dust to Hopper
I53	Bulk Unloading of Stucco to Bypass Bin
I63	Fiberglass Hopper
I55	Acceleator Weigh Bin (Enclosed)
I56	Accelerator Conveying (Enclosed)
I57	Lignocite Bin
I92	Accelerator Conveying (Enclosed)
I93	Accelerator Conveying (Enclosed)
I94	Accelerator Conveying (Enclosed)
I95	Accelerator Conveying (Enclosed)
I99	Cold Cleaning of Maintenance Parts
I69	Repulping of Recycle Paper in Hydropulper
I70	Foaming Agent Storage Tank
I71	Foaming Agent Storage Tank
I77	Gas Flame Heating of Paper
I76	Paper Unrolling and Feeding
I54	Stucco Bypass Pile Loading
I78	Paper Pasting
I80	Paste Tanks
I81	Wall Board Forming
I96	Ammonium Sulfate Storage Tanks (2)
I200	Cold Cleaning of Maintenance Parts
I110	Natural Gas Space Heating
I111	Dispersant Storage Tank
I112	Dispersant Storage Tank
I113	Diesel Storage & Filling
I114	Propane Storage & Canister Filling
I115	Gasoline Storage & Filling
I116	Reclaim Wastewater Holding Basin
I117	Mobile Vacuum Truck
I118	Raw Material Storage Drums & Totes
112	48 Horsepower Trommel Screen Engine
I101	Offline Edge Printer
I201	Edge Painting
I202	Bulk Wax Tank
I203	Bulk Retarder Tank
I204	Vermiculite Feed Bin
I205	Dextrose Feed Bin
I206	Boric Acid Feed Bin
I207	Diesel Trash Pump (10 Horsepower)

II. Plant-Wide Conditions

Facility Name: G-P Gypsum Corporation, Fort Dodge, IA
Permit Number: 99-TV-035R1

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

Permit Duration

The term of this permit is: Five (5) years from permit issuance
Commencing on: May 30, 2006
Ending on: May 29, 2011

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

Emission Limits
Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:

Opacity (visible emissions): 40% opacity
Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO_2): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter (state enforceable only)[1]:
No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.
For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a" (as revised 7/21/1999)

[1] Pending approval into Iowa's State Implementation Plan (SIP), paragraph 567 IAC 23.3(2)"a" (as revised 7/21/1999) is considered *state enforceable only*.

Particulate Matter[2]:
The emission of particulate matter from any process shall not exceed the amount determined from Table I, except as provided in 567 — 21.2(455B), 23.1(455B), 23.4(455B) and 567 — Chapter 24. If the director determines that a process complying with the emission rates specified in Table I is causing or will cause air pollution in a specific area of the state, an emission standard of 0.1 grain per standard cubic foot of exhaust gas may be imposed.
Authority for Requirement: 567 IAC 23.3(2)"a" (prior to 7/21/1999)

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"

Compliance Plan
The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.

Unless otherwise noted in Section III of this permit, G-P Gypsum Corporation, Fort Dodge, IA is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit term, G-P Gypsum Corporation, Fort Dodge, IA shall comply with such requirements in a timely manner.
Authority for Requirement: 567 IAC 22.108(15)

[2] Paragraph 567 IAC 23.3(2)"a" (prior to 7/21/1999) is the general particulate matter emission standard currently in the Iowa SIP.

III. Emission Point-Specific Conditions

Facility Name: G-P Gypsum Corporation, Fort Dodge, IA
Permit Number: **99-TV-035R1**

Emission Point ID Number: 1

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1	Unpaved Road Traffic	NA	Vehicle Traffic	NA	NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 2 & 3

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
2	2	Gypsum Ore Pile	NA	Gypsum Ore	68.75 tons/hr.	NA
3	3	Gypsum Ore Pile	NA	Gypsum Ore	50 tons/hr.	NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 4

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
4	Bulk Unloading	NA	Gypsum	125 tons/hr.	NA
5	Bulk Material Feed	NA	Gypsum	125 tons/hr.	NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 9

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
6	Primary Crushing	CE1: Baghouse	Gypsum	125 tons/hr.	98-A-811-S1
8	Screening		Gypsum	125 ton/hr.	
9	Secondary Crushing		Gypsum	125 tons/hr.	
7	Bulk Material Conveying		Gypsum	175 tons/hr.	
10	Bulk Material Conveying		Gypsum	50 tons/hr.	
11	Bulk Material Conveying		Gypsum	0.68 tons/hr.	
12	Bulk Material Conveying		Gypsum	165 tons/hr.	

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 7%
Authority for Requirement: Iowa DNR Construction Permit 98-A-811-S1
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Pollutant: Particulate Matter
Emission Limit(s): 0.022 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-811-S1
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

This source is subject to the following 40 CFR 60 Subpart A (General Provisions) and 40 CFR 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants). The above emission units cannot be operated without the baghouse.

Subpart A

The permittee shall maintain records of the occurrence and duration of any startup or shutdown in the operation of an affected facility (baghouse) while equipment is in operation; any

malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. 567 IAC 22.180(3), 40 CFR 60.7(b)

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR 60.7(e).

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Subpart OOO

On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility and fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraph e of this section. 40 CFR 60.672 (b)

If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) (See Emission Limits), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 60.671.

No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a) of this section. (See Emission Limits) 40 CFR 60.672 (e)

The owner or operator of any affected facility shall submit written reports of all performance tests conducted to demonstrate compliance with the standards set forth in 60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with

60.672 (b) and reports of observations using Method 22 to demonstrate compliance with 60.672 (e). 40 CFR 60.676 (f)

Authority for Requirement: Iowa DNR Construction Permit 98-A-811-S1
567 IAC 23.1(2)"bbb"
40 CFR 60 Subparts A & OOO

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 31
Stack Opening, (feet): 1.67 x 2.5
Exhaust Flow Rate (scfm): 16,000
Exhaust Temperature (°F): 70
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Iowa DNR Construction Permit 98-A-811-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:
Pollutant – Particulate Matter
Stack Test to be Completed by – Within two (2) years from permit issuance.
Test Method – Iowa Compliance Sampling Manual Method 5
Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? (See Appendix A) **Yes** ☒ **No** ☐

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 9A, 9B, 9C, 9D, 9E, 9F

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
9A	6	Primary Crushing (Uncaptured)	NA	Gypsum	125 tons/hr.	NA
9B	8	Screening (Uncaptured)	CE17: Dust Suppression	Gypsum	125 ton/hr.	NA
	9	Secondary Crushing (Uncaptured)		Gypsum	125 tons/hr.	NA
9C	7	Bulk Material Conveying (Uncaptured)		Gypsum	175 tons/hr.	NA
9D	10	Bulk Material Conveying (Uncaptured)		Gypsum	50 tons/hr.	NA
9E	11	Bulk Material Conveying (Uncaptured)		Gypsum	0.68 tons/hr.	NA
9F	12	Bulk Material Conveying (Uncaptured)		Gypsum	165 tons/hr.	NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

EU's 6, 8, 9, 7
Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.
Authority for Requirement: 567 IAC 23.3(2)"c"

EU's 10, 11, 12
Pollutant: Opacity
Emission Limit(s): 10%
Authority for Requirement: 567 IAC 23.1(2)"bbb"
40 CFR 60 Subpart OOO

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Emission units 10, 11, and 12 are subject to the following 40 CFR 60 Subpart A (General Provisions) and 40 CFR 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants). The above emission units cannot be operated without the baghouse.

Subpart A

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR 60.7(e).

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Subpart OOO

On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility and fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraph e of this section. 40 CFR 60.672 (b)

If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) (See Emission Limits), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 60.671.

No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a) of this section. (See Emission Limits) 40 CFR 60.672 (e)

The owner or operator of any affected facility shall submit written reports of all performance tests conducted to demonstrate compliance with the standards set forth in 60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with

60.672 (b) and reports of observations using Method 22 to demonstrate compliance with 60.672 (e). 40 CFR 60.676 (f)

Authority for Requirement: 567 IAC 23.1(2)"bbb"
40 CFR 60 Subparts A & OOO

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity:

Visible emissions shall be observed on a weekly basis to ensure that none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 22 observation will be required. If an opacity 7% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 53

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
12RU	Radial Stacker Conveyor	CE22: Baghouse	Gypsum	165 tons/hr.	99-A-401
102	Belt Conveyor		Gypsum	165 tons/hr.	

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 7%[(1)]
Authority for Requirement: Iowa DNR Construction Permit 99-A-401
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Pollutant: PM-10
Emission Limit(s): 0.13 lb/hr.
Authority for Requirement: Iowa DNR Construction Permit 99-A-401

Pollutant: Particulate Matter
Emission Limit(s): 0.022 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 99-A-401
567 IAC 23.1(2)"bbb"
40 CFR 60.672

[(1)] An exceedance of the indicator opacity of (0%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

This source is subject to the following 40 CFR 60 Subpart A (General Provisions) and 40 CFR 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).

Subpart A

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR 60.7(e).

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Subpart OOO

On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility and fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraph e of this section. 40 CFR 60.672 (b)

If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) (See Emission Limits), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 60.671.

No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a) of this section. (See Emission Limits) 40 CFR 60.672 (e)

The owner or operator of any affected facility shall submit written reports of all performance tests conducted to demonstrate compliance with the standards set forth in 60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with 60.672 (b) and reports of observations using Method 22 to demonstrate compliance with 60.672 (e). 40 CFR 60.676 (f)

Authority for Requirement: Iowa DNR Construction Permit 99-A-401
567 IAC 23.1(2)"bbb"
40 CFR 60 Subparts A & OOO

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 25
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 1500
Exhaust Temperature (°F): Ambient
Discharge Style: NA
Authority for Requirement: Iowa DNR Construction Permit 99-A-401

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity:
Visible emissions shall be observed on a weekly basis to ensure that none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity >7% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☒ **No** ☐

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 12RU

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
12RU	Radial Stacker Conveyor (Uncaptured)	NA	Gypsum	165 tons/hr.	NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 10%
Authority for Requirement: 567 IAC 23.1(2)"bbb"
40 CFR 60 Subpart OOO

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

This emission unit is subject to Subpart A (General Provisions) and Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).
Authority for Requirement: 567 IAC 23.1(2)"bbb"
40 CFR 60 Subpart OOO

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity:
Visible emissions shall be observed on a weekly basis to ensure that none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 22 observation will be required. If an opacity 10% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 12

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
13	Crushed Gypsum Ore Pile	CE17: Dust Suppression	Gypsum	165 tons/hr.	NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.
Authority for Requirement: 567 IAC 23.3(2)"c"

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 13

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
14	Gypsum Ore Pile	CE17: Dust Suppression	Gypsum	165 tons/hr.	NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.
Authority for Requirement: 567 IAC 23.3(2)"c"

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 28D (Vents Internally)

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
61	Accelerator Bin & Feed System	CE4: Baghouse	Accelerator	9 tons/hr.	99-A-140

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): No owner or operator shall cause to be discharged into the atmosphere from:

(a) Any building in which the emission unit (EU 61 - Accelerator Storage Bin & Feed System) listed in this permit (99-A-140) vents into any visible fugitive emissions except emissions from a vent as defined in § 60.671 of 40 CFR.

(b) Any vent of any building in which the emission unit (EU 61 - Accelerator Storage Bin & Feed System) listed in this permit (99-A-140) vents into emissions which exceed:

- Particulate matter in excess of 0.05 grams/dscm (0.022 grains/dscf).
- Opacity greater than 7 %.

Authority for Requirement: Iowa DNR Construction Permit 99-A-140
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

This unit is subject to the following 40 CFR 60 Subpart A (General Provisions) and 40 CFR 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).

Subpart A

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR 60.7(e).

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Subpart OOO

On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility and fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraph e of this section. 40 CFR 60.672 (b)

If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) (See Emission Limits), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 60.671.

No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a) of this section. (See Emission Limits) 40 CFR 60.672 (e)

The owner or operator of any affected facility shall submit written reports of all performance tests conducted to demonstrate compliance with the standards set forth in 60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with 60.672 (b) and reports of observations using Method 22 to demonstrate compliance with 60.672 (e). 40 CFR 60.676 (f)

Authority for Requirement: Iowa DNR Construction Permit 99-A-140
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. The facility shall use EPA Method 22.

If visible emissions, other than emissions from a vent as defined in 40 CFR 60.671, are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If visible emissions are observed from a vent, a Method 9 reading must be performed by a certified smoke reader. If an opacity > 7% is observed from the vent, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☒ **No** ☐

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 28J

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
46A	Stucco Storage Bin	CE18: Baghouse	Stucco	65 tons/hr.	78-A-185

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 47.05 lb/hr.
Authority for Requirement: Iowa DNR Construction Permit 78-A-185
567 IAC 23.3(2)"a"

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☒ **No** ☐

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 28K, 28L, 28M

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
28K	46B	Stucco Storage Bin	CE19: Baghouse	Stucco	65 tons/hr.	NA
28L	48A	Stucco Storage Bin	CE20: Baghouse	Stucco	65 tons/hr.	NA
28M	48B	Stucco Storage Bin	CE21: Baghouse	Stucco	65 tons/hr.	NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from each emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/scf
Authority for Requirement: 567 IAC 23.3(2)"a"

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? (Required for CE19, CE20, and CE21) **Yes** ☒ **No** ☐

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 29

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
50	Baghouse Heater	NA	Natural Gas	1.52 MMBtu/hr.	89-A-131
52	Gypsum Conveyor	CE6: Baghouse	Stucco	65 tons/hr.	
74	Gypsum Blender		Stucco	65 tons/hr.	
75	Gypsum Pin Mixer		Stucco	65 tons/hr.	

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/scf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant – Particulate Matter
Stack Test to be Completed by – Within two (2) years from permit issuance.
Test Method – Iowa Compliance Sampling Manual Method 5
Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? (See Appendix A) **Yes** ☒ **No** ☐

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: 32, 33, 34, 35, 36, 37

Associated Equipment

Emission Unit*	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
82	Board Drying Kiln	NA	Natural Gas	113.5 MMBtu/hr.	See Below
83					See Below
84					See Below
85					See Below
86					See Below
87					See Below
117	Dens In-Line Coating		Coatings	3.28 gallons/msf	See Below
120	Dens In-Line Spray Unit		Coatings	5.84 gallons/msf	See Below
I100	Edge Printer		Ink	0.00034 gallons/msf	See Below

* All of these emission units are exhausted through each of the emission points listed above. Each emission point is listed below with its corresponding construction permit.

Emission Point	Construction Permit
32	02-A-889-S1
33	02-A-890-S1
34	02-A-891-S1
35	99-A-298-S2
36	02-A-892-S1
37	02-A-893-S1

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from each emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[1]
Authority for Requirement: Iowa DNR Construction Permits 02-A-889-S1, 02-A-890-S1, 02-A-891-S1, 99-A-298-S2, 02-A-892-S1, 02-A-893-S1
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: Iowa DNR Construction Permits 02-A-889-S1, 02-A-890-S1, 02-A-891-S1, 99-A-298-S2, 02-A-892-S1, 02-A-893-S1
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Pollutant: Single HAP
Emission Limit(s): 9.4 tons/yr.[2, 3]
Authority for Requirement: Iowa DNR Construction Permits 02-A-889-S1, 02-A-890-S1, 02-A-891-S1, 99-A-298-S2, 02-A-892-S1, 02-A-893-S1

Pollutant: Total HAP
Emission Limit(s): 24.4 tons/yr.[2, 3]
Authority for Requirement: Iowa DNR Construction Permits 02-A-889-S1, 02-A-890-S1, 02-A-891-S1, 99-A-298-S2, 02-A-892-S1, 02-A-893-S1

[1] An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

[2] Limit applies to total emissions from the wallboard line.

[3] Standard is a 12-month rolling total.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. Dens In-Line Coating (Prime) and Dens In-Line Spray Unit (Gold) are limited to a total of 50,000 msf of Dens coated/ink applied product per rolling 12-month period.
2. Dens in-Line Coating (Prime) and Dens In-Line Spray Unit (Gold) are limited to the application of a coating containing a maximum VOC content of 0.3 lb/gal.
3. Dens In-Line Spray Unit (Gold) and Edge Printer #1 (EUI100) are limited to the application of inks containing a maximum VOC content of 7.0 lb/gal.
4. Board Drying Kiln (EU82-EU87) is limited to firing on natural gas fuel only.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record on a monthly basis, the total amount of DENS coated/ink applied product manufactured in Dens In-line Coating (Prime) and Dens In-Line Spray Unit (Gold) in ft2. Calculate and record rolling 12-month totals.
2. Record the VOC content of all coating/inks/VOC-containing materials applied in Dens In-Line Coating (Prime), Dens In-Line Spray Unit (Gold) and Edge Printer #1 (EUI100) in lbs/gallon.
3. Record on a monthly basis in tons, the Total HAP emissions from Dens-In-Line Coating (Prime), Dens In-Line Spray Unit (Gold) and Edge Printer #1 (EUI100) combined.
4. Record on a monthly basis in tons, the Individual HAP emissions from Dens-In Line Coating (Prime), Dens In-Line Spray Unit (Gold) and Edge Printer #1 (EUI100) combined.
5. Retain Material Safety Data Sheets (MSDS) of all materials used in Dens In-Line Coating (Prime), Dens In-Line Spray Unit (Gold) and Edge Printer #1 (EUI100).

Authority for Requirement: Iowa DNR Construction Permits 02-A-889-S1, 02-A-890-S1, 02-A-891-S1, 99-A-298-S2, 02-A-892-S1, 02-A-893-S1

Emission Point Characteristics

Emission points 32, 33, 34, 35, 36, and 37 shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 30
Stack Opening, (inches, dia.): 36
Exhaust Flow Rate (scfm): 8900
Exhaust Temperature (°F): 300
Discharge Style: Vertical, Obstructed
Authority for Requirement: Iowa DNR Construction Permits 02-A-889-S1, 02-A-890-S1, 02-A-891-S1, 99-A-298-S2, 02-A-892-S1, 02-A-893-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant – Particulate Matter
Stack Test to be Completed by – Within two (2) years from permit issuance.
Test Method – Iowa Compliance Sampling Manual Method 5
Authority for Requirement - 567 IAC 22.108(3)

Emission points 32-37 each qualify for stack testing for Particulate Matter. G-P Gypsum may choose to test only one of these emission points in order to demonstrate compliance for all of the emission points. If the test shows that emission point to be out of compliance with the Particulate Matter emission limit, then all of the points will be considered to be out of compliance until further testing is completed.

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 40, 41, 50 (Back Up System)

Associated Equipment

Emission Unit*	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
88A	End Trimmer	CE9: Baghouse (EP 40) CE10: Baghouse (EP 41) CE12: Baghouse (EP 50)	Gypsum Board	38 msf/hr.	See Below
88B	End Trimmer		Gypsum Board	38 msf/hr.	See Below
89	Riser Cutter		Gypsum Board	76 msf/hr.	See Below
116	Recut Saw		Gypsum Board	120 pieces/hr.	See Below

* All of these emission units are vented through the emission points listed above. Emissions from these units are vented only through emission points 40 & 41 during normal operation. Emission point 50 is only used during times when emission points 40 and/or 41 are not operational. Each emission point is listed below with its corresponding construction permit.

Emission Point	Construction Permit
40	76-A-250-S1
41	
50	00-A-677-S1

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

EP's 40 & 41
Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/scf
Authority for Requirement: Iowa DNR Construction Permit 76-A-250-S1
567 IAC 23.3(2)"a"

EP 50
Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 00-A-677-S1
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 00-A-677-S1
567 IAC 23.3(2)"a"

[(1)] An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Emission Point Characteristics

Emission Point 50 shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 54
Stack Opening, (inches): 16 x 18
Exhaust Flow Rate (scfm): 10,800
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Iowa DNR Construction Permit 00-A-677-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Emission points 40 & 41*
Pollutant – Particulate Matter
Stack Test to be Completed by – Within two (2) years from permit issuance.
Test Method – Iowa Compliance Sampling Manual Method 5
Authority for Requirement - 567 IAC 22.108(3)

Emission Point 50
Pollutant – Particulate Matter
Stack Test to be Completed by – Within two (2) years from permit issuance.
Test Method – Iowa Compliance Sampling Manual Method 5
Authority for Requirement - 567 IAC 22.108(3)

* Emission point 40 and 41 each qualify for stack testing for Particulate Matter. Because these emission points are identical, G-P Gypsum may choose to test one of the emission points (40 or 41) to demonstrate compliance for both. If the test shows that emission point to be out of compliance with the Particulate Matter emission limit, then both points will be considered to be out of compliance until further testing is completed.

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☒ **No** ☐
(Required for Emission Point 40 (CE9), 41 (CE10), and 50 (CE12), see Appendix A)

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 43

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
91	Bulk Unloading of Gypsum Dust	NA	Gypsum Dust	0.43 tons/hr.	NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 49 (Vents Internally)

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
67	Starch Bin	CE8: Baghouse	Starch	50 tons/hr.	89-A-197
68	Starch Bin		Starch	50 tons/hr.	

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 89-A-197
567 IAC 23.3(2)"a"

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☒ **No** ☐

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 50A

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
19	Reclaim/Recycle Conveyor	NA	Gypsum	15 tons/hr.	00-A-206-S1
110	Reclaim Storage Area		Gypsum	100 tons/hr.	
111	Steele Feeder		Gypsum	15 tons/hr.	

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 10%
Authority for Requirement: Iowa DNR Construction Permit 00-A-206-S1
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The maximum capacity of the feeder and the belt conveyor is limited to 15 tons per hour.
2. The maximum capacity of the storage area is limited to 10,000 tons.

NSPS:
Emission Units 110 and 111 are subject to the following 40 CFR 60 Subpart A (General Provisions) and 40 CFR 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).

Subpart A

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR 60.7(e).

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Subpart OOO

On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility and fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraph e of this section. 40 CFR 60.672 (b)

If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) (See Emission Limits), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 60.671.

No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a) of this section. (See Emission Limits) 40 CFR 60.672 (e)

The owner or operator of any affected facility shall submit written reports of all performance tests conducted to demonstrate compliance with the standards set forth in 60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with 60.672 (b) and reports of observations using Method 22 to demonstrate compliance with 60.672 (e). 40 CFR 60.676 (f)

Authority for Requirement: Iowa DNR Construction Permit 00-A-206-S1
567 IAC 23.1(2)"bbb"
40 CFR 60 Subparts A & OOO

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): NA
Stack Opening, (inches, dia.): NA
Exhaust Flow Rate (scfm): NA
Exhaust Temperature (°F): Ambient
Discharge Style: NA
Authority for Requirement: Iowa DNR Construction Permit 00-A-206-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity:
Visible emissions shall be observed on a weekly basis to ensure that none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 22 observation will be required. If an opacity 10% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 51C (Vents Internally)

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
58	Ball Mill	NA	Landplaster	0.45 tons/hr.	98-A-600
59	Ball Mill		Landplaster	0.45 tons/hr.	
60	Ball Mill		Landplaster	0.45 tons/hr.	

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): No owner or operator shall cause to be discharged into the atmosphere from:

(a) Any building enclosing the sources (Ball Mills 1, 2, and 3) listed in this permit (98-A-600) any visible fugitive emissions except emissions from a vent as defined in § 60.671 of 40 CFR.

(b) Any vent of any building enclosing the sources (Ball Mills 1, 2, and 3) listed in this permit (98-A-600) emissions which exceed:

- Particulate matter in excess of 0.05 grams/dscm (0.02 grains/dscf).
- Opacity greater than 7 %.

Authority for Requirement: Iowa DNR Construction Permit 98-A-600
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

These sources are subject to the following 40 CFR 60 Subpart A (General Provisions) and 40 CFR 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).

Subpart A

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR 60.7(e).

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Subpart OOO

On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility and fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraph e of this section. 40 CFR 60.672 (b)

If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) (See Emission Limits), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 60.671.

No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a) of this section. (See Emission Limits) 40 CFR 60.672 (e)

The owner or operator of any affected facility shall submit written reports of all performance tests conducted to demonstrate compliance with the standards set forth in 60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with 60.672 (b) and reports of observations using Method 22 to demonstrate compliance with 60.672 (e). 40 CFR 60.676 (f)

Authority for Requirement: Iowa DNR Construction Permit 98-A-600
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. The facility shall use EPA Method 22.

If visible emissions, other than emissions from a vent as defined in 40 CFR 60.671, are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If visible emissions are observed from a vent, a Method 9 reading must be performed by a certified smoke reader. If an opacity > 7% is observed from the vent, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 52

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
31	Landplaster Storage Bin & Feed	CE16: Baghouse	Landplaster	9.975tons/hr.	98-A-601

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 7%
Authority for Requirement: Iowa DNR Construction Permit 98-A-601
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Pollutant: Particulate Matter
Emission Limit(s): 0.022 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-601
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

This source is subject to the following 40 CFR 60 Subpart A (General Provisions) and 40 CFR 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).

Subpart A
The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR 60.7(e).

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution

control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Subpart OOO

On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility and fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraph e of this section. 40 CFR 60.672 (b)

If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) (See Emission Limits), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 60.671.

No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a) of this section. (See Emission Limits) 40 CFR 60.672 (e)

The owner or operator of any affected facility shall submit written reports of all performance tests conducted to demonstrate compliance with the standards set forth in 60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with 60.672 (b) and reports of observations using Method 22 to demonstrate compliance with 60.672 (e). 40 CFR 60.676 (f)

Authority for Requirement: Iowa DNR Construction Permit 98-A-601
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 50
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 300
Exhaust Temperature (°F): 70
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Iowa DNR Construction Permit 98-A-601

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity:
Visible emissions shall be observed on a weekly basis to ensure that none when the emission unit on this emission point is at or near full capacity. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity >7 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☒ **No** ☐

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 55 (Vents Internally)

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
101	High Angle Conveyor	CE23: Baghouse	Gypsum	125 tons/hr.	99-A-402
103	Raw Gypsum Bin		Gypsum	125 tons/hr.	

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 7%[(1)]
Authority for Requirement: Iowa DNR Construction Permit 99-A-402
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Pollutant: PM-10
Emission Limit(s): 0.09 lb/hr.
Authority for Requirement: Iowa DNR Construction Permit 99-A-402

Pollutant: Particulate Matter
Emission Limit(s): 0.022 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 99-A-402
567 IAC 23.1(2)"bbb"
40 CFR 60.672

[(1)] An exceedance of the indicator opacity of (0%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

This source is subject to the following 40 CFR 60 Subpart A (General Provisions) and 40 CFR 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).

Subpart A

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR 60.7(e).

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Subpart OOO

On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility and fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraph e of this section. 40 CFR 60.672 (b)

If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) (See Emission Limits), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 60.671.

No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a) of this section. (See Emission Limits) 40 CFR 60.672 (e)

The owner or operator of any affected facility shall submit written reports of all performance tests conducted to demonstrate compliance with the standards set forth in 60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with 60.672 (b) and reports of observations using Method 22 to demonstrate compliance with 60.672 (e). 40 CFR 60.676 (f)

Authority for Requirement: Iowa DNR Construction Permit 99-A-402
567 IAC 23.1(2)"bbb"
40 CFR 60 Subpart OOO

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 47.5
Stack Opening, (inches, dia.): 12
Exhaust Flow Rate (scfm): 1000
Exhaust Temperature (°F): Ambient
Discharge Style: NA
Authority for Requirement: Iowa DNR Construction Permit 99-A-402

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:
Pollutant – Particulate Matter
Stack Test to be Completed by – Within two (2) years from permit issuance.
Test Method – Iowa Compliance Sampling Manual Method 5
Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? (See Appendix A) **Yes** ☒ **No** ☐

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 56

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
104	Chain Feeder	CE24: Baghouse	Gypsum	50 tons/hr.	99-A-403
105	Ball Race Mill		Gypsum	50 tons/hr.	
106	Hot Gas Generator		Natural Gas	0.049 MMBtu/hr	

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 10%
Authority for Requirement: Iowa DNR Construction Permit 99-A-403
567 IAC 23.1(2)"ppp"
40 CFR 60.672

Pollutant: PM-10
Emission Limit(s): 4.5 lb/hr.
Authority for Requirement: Iowa DNR Construction Permit 99-A-403

Pollutant: Particulate Matter
Emission Limit(s): 0.04 gr/scf
Authority for Requirement: Iowa DNR Construction Permit 99-A-403
567 IAC 23.1(2)"ppp"
40 CFR 60.672

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The Hot Gas Generator (EU-106) shall only use Natural Gas.

Reporting & Record keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record the dates of any filter bag replacements for CE-24 or CE-25.

NSPS:
This source is subject to the following 40 CFR 60 Subpart A (General Provisions) and 40 CFR 60 Subpart UUU (Standards of Performance for Calciners and Dryers in Mineral Industries).

Subpart A

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR 60.7(e).

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Subpart UUU
Each owner or operator shall submit written reports semiannually of exceedances of control device operating parameters required to be monitored by Sec. 60.734 of this subpart. For the purpose of these reports, exceedances are defined as follows:

(1) All 6-minute periods during which the average opacity from dry control devices is greater than 10 percent; 40 CFR 60.735(c)

Authority for Requirement: Iowa DNR Construction Permit 99-A-403
567 IAC 23.1(2)"ppp"
40 CFR 60 Subparts A & UUU

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 105
Stack Opening, (inches, dia.): 54
Exhaust Flow Rate (scfm): 35,000
Exhaust Temperature (°F): 300
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Iowa DNR Construction Permit 99-A-403

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☒ **No** ☐

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 57

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
107	Closed Aeroslide	CE26: Baghouse	Gypsum	50 tons/hr.	99-A-404
108	Stucco Cooler		Gypsum	50 tons/hr.	

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 7%[(1)]
Authority for Requirement: Iowa DNR Construction Permit 99-A-404
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Pollutant: PM-10
Emission Limit(s): 4.46 lb/hr.
Authority for Requirement: Iowa DNR Construction Permit 99-A-404

Pollutant: Particulate Matter
Emission Limit(s): 0.022 gr/dscf
Authority for Requirement: Iowa DNR Construction Permit 99-A-404
567 IAC 23.1(2)"bbb"
40 CFR 60.672

[(1)] An exceedance of the indicator opacity of (0%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

This source is subject to the following 40 CFR 60 Subpart A (General Provisions) and 40 CFR 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).

Subpart A

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR 60.7(e).

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Subpart OOO

On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility and fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraph e of this section. 40 CFR 60.672 (b)

If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) (See Emission Limits), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 60.671.

No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a) of this section. (See Emission Limits) 40 CFR 60.672 (e)

The owner or operator of any affected facility shall submit written reports of all performance tests conducted to demonstrate compliance with the standards set forth in 60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with 60.672 (b) and reports of observations using Method 22 to demonstrate compliance with 60.672 (e). 40 CFR 60.676 (f)

Authority for Requirement: Iowa DNR Construction Permit 99-A-404
567 IAC 23.1(2)"bbb"
40 CFR 60 Subparts A & OOO

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 56
Stack Opening, (inches, dia.): 54
Exhaust Flow Rate (scfm): 52,000
Exhaust Temperature (°F): 200
Discharge Style: NA
Authority for Requirement: Iowa DNR Construction Permit 99-A-404

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:
Pollutant – Particulate Matter
Stack Test to be Completed by – Within two (2) years from permit issuance.
Test Method – Iowa Compliance Sampling Manual Method 5
Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? (See Appendix A) **Yes** ☒ **No** ☐

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 59

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
113B	Diesel Engine	NA	Diesel Fuel	460 horsepower	01-A-1114

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%[(1)]
Authority for Requirement: Iowa DNR Construction Permit 01-A-1114

Pollutant: PM-10
Emission Limit(s): 0.72 lb/hr.
Authority for Requirement: Iowa DNR Construction Permit 01-A-1114

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/scf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 2.5 lb/MMBtu
Authority for Requirement: Iowa DNR Construction Permit 01-A-1114
567 IAC 23.3(3)"b"(2)

[(1)] An exceedance of the indicator opacity of (20%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. Diesel Engine (EP59) is limited to firing diesel fuel containing a sulfur content less than or equal to 0.05 percent by weight.

Hours of operation:

1. Diesel Engine (EP 113B) and Grinding (EU113A) and Screening (EU114) Operation are limited 2500 hours of operation per rolling 12-month period.

Reporting & Record keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record on a monthly basis, hours of operation of Diesel Engine (EU113B) and Grinding (EU113A) and Screening (EU114) Operation. Calculate and record rolling 12-month totals.
2. Retain supplier's certification of sulfur content in diesel fuel fired in Diesel Engine (EP59).

Authority for Requirement: Iowa DNR Construction Permit 01-A-1114

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 16
Stack Opening, (inches, dia.): 4
Exhaust Flow Rate (acfm): 3535
Exhaust Temperature (°F): 1166
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Iowa DNR Construction Permit 01-A-1114

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 59A

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
113A	Maxi-Grinder	NA	Gypsum	100 tons/hr.	01-A-1113
112	Portable Trommel Screen		Gypsum	50 tons/hr.	
114	Portable Reclaim Conveyor		Gypsum	100 tons/hr.	

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): No owner or operator shall cause to be discharged into the atmosphere:

(a) any fugitive emissions which exhibit greater than 10 percent opacity, except (b), (c), and (d) below, from any transfer points on the above listed equipment;

(b) any fugitive emissions which exhibit greater than 15 percent opacity from any crushers;

(c) any fugitive emissions which exhibit visible emissions from any screening operations, bucket elevators, belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line

(d) truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempted.

Authority for Requirement: Iowa DNR Construction Permit 01-A-1113
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Hours of operation:

1. Diesel Engine (EP 113B) and Grinding (EU113A) and Screening (EU114) Operation are limited 2500 hours of operation per rolling 12-month period.

Reporting & Record keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record on a monthly basis, hours of operation of Diesel Engine (EU113B) and Grinding (EU113A) and Screening (EU114) Operation. Calculate and record rolling 12-month totals.
2. Retain supplier's certification of sulfur content in diesel fuel fired in Diesel Engine (EP59).

NSPS:
This source is subject to the following 40 CFR 60 Subpart A (General Provisions) and 40 CFR 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).

Subpart A

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR 60.7(e).

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Subpart OOO

On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility and fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraph e of this section. 40 CFR 60.672 (b)

If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) (See Emission Limits), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 60.671.

No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a) of this section. (See Emission Limits) 40 CFR 60.672 (e)

The owner or operator of any affected facility shall submit written reports of all performance tests conducted to demonstrate compliance with the standards set forth in 60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with 60.672 (b) and reports of observations using Method 22 to demonstrate compliance with 60.672 (e). 40 CFR 60.676 (f)

Authority for Requirement: Iowa DNR Construction Permit 01-A-1113
567 IAC 23.1(2)"bbb"
40 CFR 60 Subpart OOO

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. The facility shall use EPA Method 22. If an opacity >10% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 60A

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
115A	Maxi-Grinder	NA	Gypsum	100 tons/hr.	02-A-360

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit(s): No owner or operator shall cause to be discharged into the atmosphere:

(a) any fugitive emissions which exhibit greater than 10 percent opacity, except (b), (c), and (d) below, from any transfer points on the above listed equipment;

(b) any fugitive emissions which exhibit greater than 15 percent opacity from any crushers;

(c) any fugitive emissions which exhibit visible emissions from any screening operations, bucket elevators, belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line

(d) truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempted.

Authority for Requirement: Iowa DNR Construction Permit 02-A-360
567 IAC 23.1(2)"bbb"
40 CFR 60.672

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Hours of operation:

1. The portable grinding and screening operation (EU 115) shall not operate more than 2500 hours per rolling 12-month period.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record on a monthly basis the hours of operation of the portable grinding and screening operation (EU 115). Calculate and record rolling 12-month totals.

NSPS:
This source is subject to the following 40 CFR 60 Subpart A (General Provisions) and 40 CFR 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants).

Subpart A

The permittee shall submit an excess emissions and monitoring systems performance report to the Department and Administrator in accordance with 40 CFR 60.7(c). The summary report form shall contain the information and format required in 40 CFR 60.7(d).

Notwithstanding the frequency of reporting requirements in the prior permit conditions, the permittee may reduce the frequency of reporting of excess emissions and monitoring system performance reports pursuant to 40 CFR 60.7(e).

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard. 40 CFR 60.11(c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40 CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Subpart OOO

On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility and fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraph e of this section. 40 CFR 60.672 (b)

If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) (See Emission Limits), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 60.671.

No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility

emissions which exceed the stack emissions limits in paragraph (a) of this section. (See Emission Limits) 40 CFR 60.672 (e)

The owner or operator of any affected facility shall submit written reports of all performance tests conducted to demonstrate compliance with the standards set forth in 60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with 60.672 (b) and reports of observations using Method 22 to demonstrate compliance with 60.672 (e). 40 CFR 60.676 (f)

Authority for Requirement: Iowa DNR Construction Permit 02-A-360
567 IAC 23.1(2)"bbb"
40 CFR 60 Subparts A & OOO

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 60

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
115B	Diesel Engine	NA	Diesel Fuel	460 horsepower	02-A-361

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40%[(1)]
Authority for Requirement: Iowa DNR Construction Permit 02-A-361

Pollutant: PM-10
Emission Limit(s): 0.72 lb/hr.
Authority for Requirement: Iowa DNR Construction Permit 02-A-361

Pollutant: Particulate Matter
Emission Limit(s): 0.72 lb/hr.
Authority for Requirement: Iowa DNR Construction Permit 02-A-361

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 2.5 lb/MMBtu
Authority for Requirement: Iowa DNR Construction Permit 02-A-361
567 IAC 23.3(3)"b"(2)

[(1)] An exceedance of the indicator opacity of (20%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Hours of operation:

1. The 460 Hp Diesel Engine (EU 115B) shall not operate more than 2500 hours per rolling 12-month period.

Process throughput:

1. The 460 Hp Diesel Engine (EU 115B) is limited to firing diesel fuel containing a sulfur content less than or equal to 0.05 percent by weight.

Reporting & Record keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record on a monthly basis the hours of operation of the 460 Hp Diesel Engine (EU 115B). Calculate and record rolling 12-month totals.
2. Retain supplier's certification of sulfur content in diesel fuel fired in the 460 Hp Diesel Engine (EU 115B).

Authority for Requirement: Iowa DNR Construction Permit 02-A-361

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 16
Stack Opening, (inches, dia.): 4
Exhaust Flow Rate (acfm): 3535
Exhaust Temperature (°F): 1166
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Iowa DNR Construction Permit 02-A-361

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 61

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
118	DENS Off-line Coating	NA	Product Coating	30.972 gallons/hr.	02-A-894-S1

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 02-A-894-S1
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr/scf
Authority for Requirement: Iowa DNR Construction Permit 02-A-894-S1
567 IAC 23.4(13)

Pollutant: Single HAP
Emission Limit(s): 9.4 tons/yr.[(2), (3)]
Authority for Requirement: Iowa DNR Construction Permit 02-A-894-S1

Pollutant: Total HAP's
Emission Limit(s): 24.4 tons/yr.[(2), (3)]
Authority for Requirement: Iowa DNR Construction Permit 02-A-894-S1

[(1)] An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

[(2)] Limit applies to total emissions from the wallboard line.

[(3)] Standard is a 12-month rolling total.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. DENS Off-line Coating (EU118) Line is limited to using coatings with a maximum VOC content of 0.1 pounds per gallon.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record the VOC content of all materials used in Dens Off-Line Coating Line (EU118) in pounds per gallon.
2. Record on a monthly basis in tons, the total HAP emissions from Dens Off-line Coating line (EU118).
3. Record on a monthly basis in tons, the individual HAP emissions from Dens Off-line Coating Line (EU118).
4. Retain Material Safety Data Sheets (MSDS) of all materials used in Dens Off-line Coating Line (EU118).

Authority for Requirement: Iowa DNR Construction Permit 02-A-894-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 16' 2"
Stack Opening, (inches, dia.): 26
Exhaust Flow Rate (scfm): 600
Exhaust Temperature (°F): 100
Discharge Style: Obstructed, Vertical or Horizontal
Authority for Requirement: Iowa DNR Construction Permit 02-A-894-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 61A

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
1101	Edge Printer	NA	Ink	0.257 gallons/hr.	04-A-061

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 04-A-061
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr/scf
Authority for Requirement: Iowa DNR Construction Permit 04-A-061
567 IAC 23.4(13)

Pollutant: Single HAP
Emission Limit(s): 9.4 tons/yr.[(2), (3)]
Authority for Requirement: Iowa DNR Construction Permit 04-A-061

Pollutant: Total HAP's
Emission Limit(s): 24.4 tons/yr.[(2), (3)]
Authority for Requirement: Iowa DNR Construction Permit 04-A-061

[(1)] An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

[(2)] Limit applies to total emissions from the wallboard line.

[(3)] Standard is a 12-month rolling total.

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. Edge Printer #2 (EUI101) is limited to the application of inks containing a maximum VOC content of 7.0 lb/gal.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record the VOC content of all materials used in Edge Printer #2 (EUI101) in pounds per gallon.
2. Record on a monthly basis in tons, the Total HAP emissions from Edge Printer #2 (EUI101).
3. Record on a monthly basis in tons, the Individual HAP emissions from Edge Printer #2 (EUI101).
4. Retain Material Safety Data Sheets (MSDS) of all materials used in Edge Printer #2 (EUI101).

Authority for Requirement: Iowa DNR Construction Permit 04-A-061

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? **Yes** ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 62

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
119	Holtec Saw	CE27: Baghouse	Gypsum Board	8,000 msf/hr.	02-A-895-S1

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 02-A-895-S1
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.02 gr/scf
Authority for Requirement: Iowa DNR Construction Permit 02-A-895-S1

[(1)] An exceedance of the indicator opacity of 10% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control equipment parameters:

1. Maintain baghouse (CE27) according to manufacturers specifications and maintenance schedule.

Reporting & Record keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record all maintenance (if any) on baghouse (CE27).

Authority for Requirement: Iowa DNR Construction Permit 02-A-895-S1

Emission Point Characteristics
The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 16' 2"
Stack Opening, (inches, dia.): 24
Exhaust Flow Rate (scfm): 10,000
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical, Unobstructed
Authority for Requirement: Iowa DNR Construction Permit 02-A-895-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant – Particulate Matter
Stack Test to be Completed by – Within two (2) years from permit issuance.
Test Method – Iowa Compliance Sampling Manual Method 5
Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Facility Maintained Operation & Maintenance Plan Required? **Yes** ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required? (See Appendix A) **Yes** ☒ **No** ☐

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*

G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Urbandale, Iowa 50322, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 901 N. 5th St., Kansas City, KS 66101. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period

consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
    a. Form 1.0 "Facility Identification";
    b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
    c. Form 5.0 "Title V annual emissions summary/fee"; and
    d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
    a. Form 1.0 "Facility Identification";
    b. Form 5.0 "Title V annual emissions summary/fee";
    c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges
Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:
1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

G8. Duty to Provide Information
The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

G9. General Maintenance and Repair Duties
The owner or operator of any air emission source or control equipment shall:
1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

G10. Recordkeeping Requirements for Compliance Monitoring
1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
    a. The date, place and time of sampling or measurements
    b. The date the analyses were performed.
    c. The company or entity that performed the analyses.
    d. The analytical techniques or methods used.
    e. The results of such analyses; and
    f. The operating conditions as existing at the time of sampling or measurement.
    g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
    a. Comply with all terms and conditions of this permit specific to each alternative scenario.

b. Maintain a log at the permitted facility of the scenario under which it is operating.

c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;

b. Compliance test methods specified in 567 Chapter 25; or

c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

a. Any monitoring or testing methods provided in these rules; or

b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to

determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Oral Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
ii. The estimated quantity of the excess emission.
iii. The time and expected duration of the excess emission.
iv. The cause of the excess emission.
v. The steps being taken to remedy the excess emission.
vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
ii. The estimated quantity of the excess emission.
iii. The time and duration of the excess emission.
iv. The cause of the excess emission.
v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
vi. The steps that were taken to limit the excess emission.
vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed

equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The facility at the time was being properly operated;

c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and

d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.

b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);

c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);

d. The changes are not subject to any requirement under Title IV of the Act.

e. The changes comply with all applicable requirements.

f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

i. A brief description of the change within the permitted facility,
ii. The date on which the change will occur,
iii. Any change in emission as a result of that change,
iv. The pollutants emitted subject to the emissions trade
v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
vii. Any permit term or condition no longer applicable as a result of the change. *567 IAC 22.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that is required to do any of the following:

i. Correct typographical errors
ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
iii. Require more frequent monitoring or reporting by the permittee; or
iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Permit Modification.

a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:

i. Do not violate any applicable requirements

ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.

iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.

iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;

v. Are not modifications under any provision of Title I of the Act; and

vi. Are not required to be processed as significant modification.

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.

ii. The permittee's suggested draft permit

iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and

iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.105(1)"a"(4)*

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *567 IAC 22.1(1)*

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations, training fires and controlled burning of a demolished building. *567 IAC 23.1(3)"a", and 567 IAC 23.2*

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. *567 IAC 23.2 <u>except</u> 23.2(3)"h"; 567 IAC 23.2(3)"h" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
    a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
    b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
    c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
    d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
    a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
    b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
    c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
    d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
    e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to June 25, 1993.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to June 25, 1993, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source

receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

a. Such applicable requirements are included and are specifically identified in the permit; or

b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.

3. A permit shield shall not alter or affect the following:

a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought to determine transferability of the permit. *567 IAC 22.111 (1)"d"*

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification
The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with an applicable requirement. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.
Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-6001

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.
567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes
The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.
567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits
EPA Region 7
Air Permits and Compliance Branch
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-5100

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

Field Office 1
909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

Field Office 2
P.O. Box 1443
2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

Field Office 3
1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

Field Office 4
1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

Field Office 5
401 SW 7th Street, Suite I
Des Moines, IA 50309
(515) 725-0268

Field Office 6
1023 West Madison Street
Washington, IA 52353-1623
(319) 653-2135

Polk County Public Works Dept.
Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313
(515) 286-3351

Linn County Public Health Dept.
Air Pollution Control Division
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000

Appendix A: Compliance Assurance Monitoring Plan

COMPLIANCE ASSURANCE MONITORING (CAM) PLAN
BAGHOUSES FOR PARTICULATE (PM/PM_{10}) CONTROL

I. Background

A. Emissions Unit

Description:	Baghouses for PM/PM_{10} Control (See CAM Applicability Table)
Identification:	EP9, EP29, EP40, EP41, EP50, EP55, EP56, EP62

B. Applicable Regulation, Emission Limit, and Pre-CAM Monitoring Requirements

Regulation:	See CAM Applicability Table
CAM Emission Limits:	See CAM Applicability Table
Pre-CAM Monitoring:	Weekly Visible Emissions Observations / Pressure Drops

C. Control Technology, Capture System, Bypass, Potential-to-Emit (PTE)

Controls:	Baghouses
Capture System:	Closed Dust Systems or Hood Collection Points
Bypass:	None of these units are configured to allow bypass of the control device.
PTE Before Control:	See CAM Applicability Table
PTE After Control:	See CAM Applicability Table

II. Monitoring Approach

A. Indicators

Presence of visible emissions is the primary indicator for these sources. Normal process operations will not produce conditions that adversely affect the function of the baghouses, so no process operational parameters will be monitored. For those equipped baghouses, pressure drop across the filters will be monitored on a weekly basis as a secondary operating parameter.

B. Measurement Approach & Frequency

A trained employee familiar with normal process operations and the appearance of the exhaust from each source is responsible for observing and recording visible emissions observations on a daily basis. Pressure drop across the baghouse is recorded on a weekly basis as a means to judge the dust "cake" on the bags and verify that the bags are not being unduly worn.

C. Indicator Range

The presence of any visible emissions would be considered an excursion and trigger the operator to take corrective actions.

D. Performance Criteria

Data Representativeness: The presence of any visible emissions from a properly maintained and operating baghouse is an appropriate indicator that a bag rupture or leak is occurring and that corrective action is necessary.

QA/QC Practices and Criteria: Employees performing visible emissions observations are trained on observing the source under the appropriate conditions (e.g lighting, sun position, etc.) and have a detailed understanding of the proper operation of the affected sources. The records of the emissions observations are periodically reviewed by the facility environmental coordinator to verify that the notations are being kept properly.

III. Response to Excursions

Upon observing visible emissions, an operator will check the pressure drop, pulsing system, and the baghouse housing. If these checks do not allow the operator to correct the visible emissions, maintenance will be notified immediately. A complete maintenance inspection will be initiated within 12 hours of the observation and the necessary repairs will be made as soon as judged practical by facility management and environmental staff.

JUSTIFICATION

I. Background

The Pollutant Specific Emission Units (PSEU) are baghouses in place for particulate (PM, PM_{10}) control.

II. Rationale for Selection of Performance Indicators

When a particulate laden air stream is passed through the baghouse filter bags, the particulate matter is retained on the "dirty" side of the bags while the air stream passes through and out the stack. On a timed sequence, a reverse compressed air pulsejet knocks the particulate off the bags. The collected material drops into a hopper, bin, or screw conveyor and is returned to the process. When a bag wears through, tears, or a seal is loose, a fine amount of visible emissions is the first evidence of a malfunction.

III Rationale for Selection of Indicator Ranges

Since the opacity limits on these sources range between 7% to 40%, presence of any visible emissions is judged as the most conservative indicator applicable to all of the facility's baghouses. The facility's performance testing experience with these sources suggests that a lack of visible emissions to be a representative indicator that the applicable grain loading and mass emission limitations are also being met.

PERFORMANCE TEST DATA

The indicator ranges submitted as part of this CAM plan are based on engineering assessments, operational experience, and several prior performance tests at G-P Gypsum facilities including Fort Dodge. Additional performance testing is unnecessary because of the very conservative indicator range proposed and the vast amount of supporting performance data available from previous engineering and compliance tests.

G-P Gypsum, Fort Dodge, IA
Compliance Assurance Monitoring (CAM) Plan Summary Table

EP	EU	Description	Control Device	Regulation / Specific Emission Limitation	Indicator	Frequency	Action Level	Indicator Range
9A, 9B, 9C, 9D, 9E, 9F	6,7,8,9,10,11,12	Rock Handling Fugitives	Dust Suppression System (CE17)	567 IAC 23.1(2)"bbb" - NSPS OOO / 0.022 gr/dscf	Visible Emissions	Daily	Any Visible Emissions	From no visible to any visible emissions
9	6,7,8,9,10,11,12	Rock Handling Baghouse	Baghouse (CE1)	567 IAC 23.1(2)"bbb" - NSPS OOO / 0.022 gr/dscf	Visible Emissions	Daily	Any Visible Emissions	From no visible to any visible emissions
29	50, 52, 74, and 75	Pin Mixer & Blender	Baghouse (CE6)	567 IAC 23.1(2)"bbb" - NSPS OOO / 0.022 gr/dscf	Visible Emissions	Daily	Any Visible Emissions	From no visible to any visible emissions
40	88A, 88B, 89 & 116	Back-Up End Trim System (1)	Baghouse (CE9)	567 IAC 23.3(2)"a" / 0.1 gr/dscf	Visible Emissions	Daily	Any Visible Emissions	From no visible to any visible emissions
41	88A, 88B, 89 & 116	Back-Up End Trim System (2)	Baghouse (CE10)	567 IAC 23.3(2)"a" / 0.1 gr/dscf	Visible Emissions	Daily	Any Visible Emissions	From no visible to any visible emissions
50	EU88A, 88B, 89 & 116	Primary End Trim System	Baghouse (CE12)	567 IAC 23.3(2)"a" / 0.1 gr/dscf	Visible Emissions	Daily	Any Visible Emissions	From no visible to any visible emissions
55	101, 103	Raw Rock Bin	Baghouse (CE23)	567 IAC 23.1(2)"bbb" - NSPS OOO / 0.022 gr/dscf	Visible Emissions	Daily	Any Visible Emissions	From no visible to any visible emissions
56	107, 108	Stucco Cooler	Baghouse (CE26)	567 IAC 23.1(2)"bbb" - NSPS OOO / 0.022 gr/dscf	Visible Emissions	Daily	Any Visible Emissions	From no visible to any visible emissions
62	119	Holtec Saw	Baghouse (CE27)	Construction Permit Limit / 0.02 gr/dscf	Visible Emissions	Daily	Any Visible Emissions	From no visible to any visible emissions

G-P Gypsum, Fort Dodge, IA

Compliance Assurance Monitoring (CAM) Applicability Table

EP	EU	Description	Control Device	Regulation / Specific Emission Limitation	Uncontrolled PM_{10} Emissions (tons/yr)	Uncontrolled PM Emissions (tons/yr)	Controlled PM_{10} Emissions (tons/yr)	Controlled PM Emissions (tons/yr)	CAM Plan Required (Are Emissions Greater than the Major Source Threshold of 100 tons?)
9A, 9B, 9C, 9D, 9E, 9F	6,7,8,9,10,11,12	Rock Handling Fugitives	Dust Suppression System (CE17)	567 IAC 23.1(2)"bbb" - NSPS OOO (9D, 9E, 9F) / 10% Opacity	> 100	> 100	69.0	143	No[1]
9	6,7,8,9,10,11,12	Rock Handling Baghouse	Baghouse (CE1)	567 IAC 23.1(2)"bbb" - NSPS OOO / 0.022 gr/dscf	263	613	12.01	12.01	Yes
28J, 28K, 28L, & 28M	46A, 46B, 48A, 48B	Stucco Bins	Baghouse (CE18, 19, 20, 21)	NA	37	77	3.45	3.45	No
28D	61	Accelerator Bin	Baghouse (CE4)	567 IAC 23.3(2)"a" / 0.1 gr/dscf	5	11	0.21	0.21	No
29	50, 52, 74, and 75	Pin Mixer & Blender	Baghouse (CE6)	567 IAC 23.1(2)"bbb" - NSPS OOO / 0.022 gr/dscf	85	399	11.8	11.8	Yes
40	88A, 88B, 89 & 116	Back-Up End Trim System (1)	Baghouse (CE9)	567 IAC 23.3(2)"a" / 0.1 gr/dscf	1132	1332	20.2	20.2	Yes
41	88A, 88B, 89 & 116	Back-Up End Trim System (2)	Baghouse (CE10)	567 IAC 23.3(2)"a" / 0.1 gr/dscf	1132	1332	20.2	20.2	Yes
49	67,68	Starch Silo w/bin vent	Baghouse (CE8)	567 IAC 23.3(2)"a" / 0.1 gr/dscf	2.86	2.86	0.02	0.02	No
50	EU88A, 88B, 89 & 116	Primary End Trim System	Baghouse (CE12)	567 IAC 23.3(2)"a" / 0.1 gr/dscf	679	799	40.5	40.5	Yes
52	31	Landplaster Bin	Baghouse (CE16)	567 IAC 23.1(2)"bbb" - NSPS OOO / 0.022 gr/dscf	6	12	0.23	0.23	No
53	12RU & 102	Belt Conveyor Transitions	Baghouse (CE22)	567 IAC 23.1(2)"bbb" - NSPS OOO / 0.022 gr/dscf	44	88	0.56	1.13	No
55	101, 103	Raw Rock Bin	Baghouse (CE23)	567 IAC 23.1(2)"bbb" - NSPS OOO / 0.022 gr/dscf	53	145	0.38	0.83	Yes
56	104, 105 &106	CP Mill	Baghouses (CE24 & CE25)	567 IAC 23.1(2)"ppp" - NSPS UUU / 0.04 gr/dscf	32	64	19.7	19.7	No
57	107, 108	Stucco Cooler	Baghouse (CE26)	567 IAC 23.1(2)"bbb" - NSPS OOO / 0.022 gr/dscf	33	153	19.5	19.5	Yes
62	119	Holtec Saw	Baghouse (CE27)	Construction Permit Limit / 0.02 gr/dscf	238	280	7.51	7.51	Yes

[1] A CAM Plan is not required for these emission units and this control device because the control device is not necessary to comply with the emission limitation.

Pressure Drop Ranges for CAM Affected Control Equipment

EP	Control	Control Description	Pressure Drop (in. of H_2O)
9	CE1	Baghouse	0.5 – 9.0
29	CE6	Baghouse	0.2 – 1.8
40	CE9	Baghouse	0.5 – 5.0
41	CE10	Baghouse	0.5 – 5.0
50	CE12	Baghouse	0.25 – 2.5
55	CE23	Baghouse	0.5 – 1.0
57	CE26	Baghouse	0.5 – 1.1